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THE PLANTS OF THE MUSKEGS

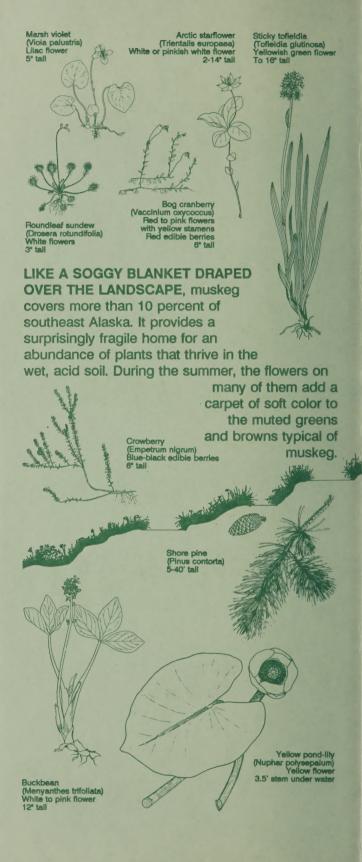
Southeast Alaska





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Muskeg itself consists of dead plants in various stages of decomposition, ranging from fairly intact sphagnum peat moss or sedge peat to highly decomposed muck. Pieces of wood, such as buried tree branches, roots, or whole trees, can make up 5 to 15 percent of the soil.

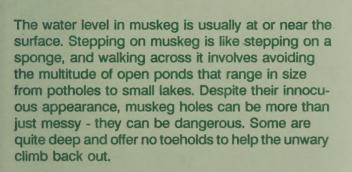
Ground cover

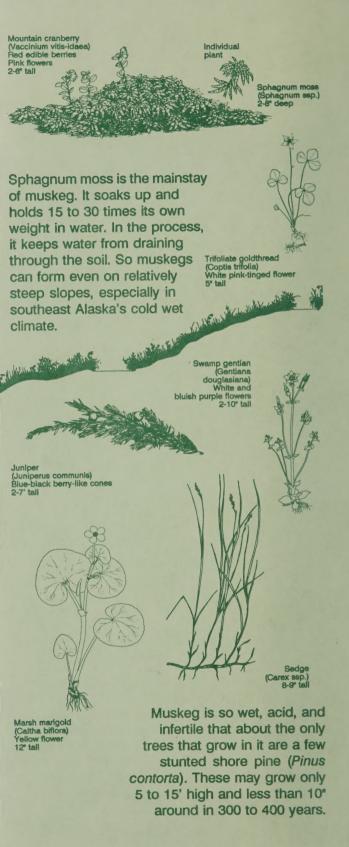
Live sphagnum moss Water table

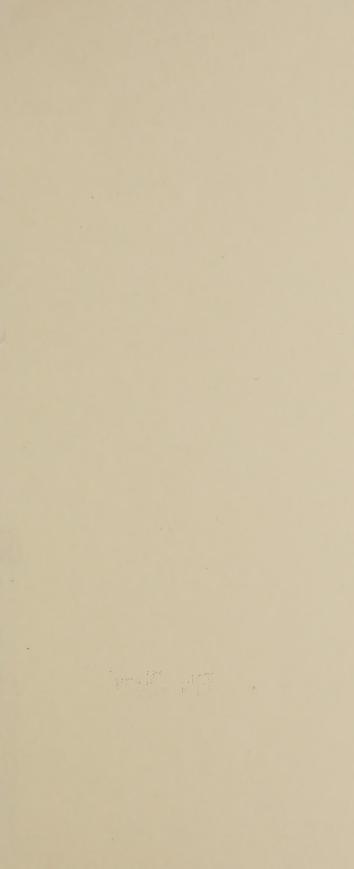
Sphagnum peat

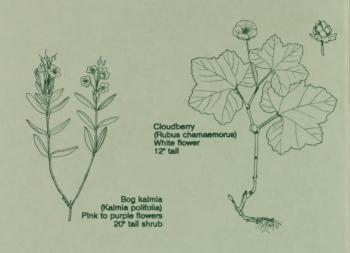
Partially decomposed mucky peat

Impervious glacial till









Muskegs need two conditions to develop: abundant rain and cool summers. A dead plant that falls on dry soil is attacked by bacteria and fungi and quickly rots. If that plant lands in water or on saturated soil, though, it faces a different fate. Air can't get to it, so the bacteria and fungi can't function well. The cool temperatures slow them down even more. All this slows decomposition, and the plant debris accumulates to form peat and eventually, a muskeg.



Bog orchid (Habenaria saccata) Green flower with purplish-brown tinge The Algonquin Indians gave the term "muskeg" to what the Scandinavians call a blanket bog. It's formed as peat accumulates and slows drainage, raising the water level and forming more peat. In some muskegs, the peat is 20' deep - or more. abrador-tea

Basically, muskeg is a thin surface mat floating on a very soggy bog. When the surface layer is broken, whether by running three- or four-wheelers over it or by walking repeatedly over the same area, it's slow to heal. The scars are visible for many years. To prevent that damage, trails across muskegs are built on boardwalks, and people are urged to avoid muskegs with their vehicles.

Cover, profile, and sphagnum moss illustrations are by Carol Hoff, and the sedge and juniper illustrations are by Susan Kilka. All other illustrations are by Laura Dassow, and reproduced from the U.S. Forest Service publication: THE COMMON PLANTS OF THE MUSKEGS OF SOUTHEAST ALASKA, by O. Wayne Robuck, July 1985.

